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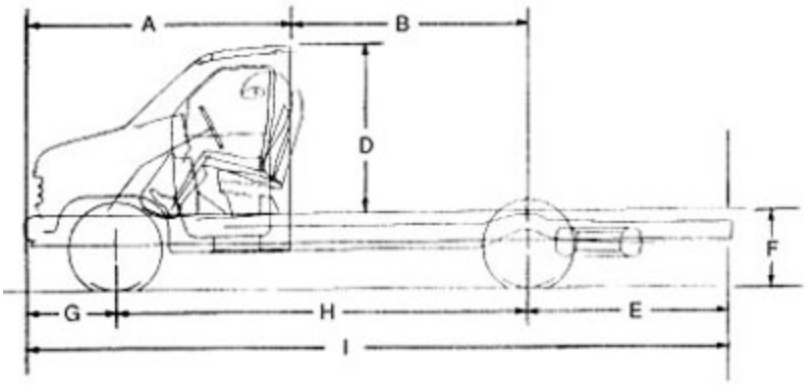
2024 E-Series

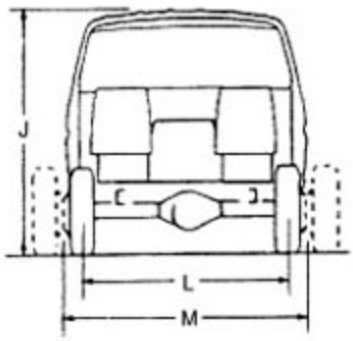
Specs

Key product specifications include vehicle dimensions and capacities, detailed powertrain information, transmission gear ratios and more.

2024 E-Series > Specs > Dimensions/Weights/Capacities

Body Dimensions — E-350/E-450 Cutaway





Series		E-350			E-450	
Model		Cutaway			Cutaway	
		SRW/DRW	SRW/DRW	DRW	DRW	DRW
Code	Description					
A	Cab Length	92.5	92.5	92.5	92.5	92.5
B	Cab Rear to Rear Axle	80.0	100.0	118.0	100.0	118.0
D	Top of Frame to Top of Cab	54.4	54.4	54.4	58.4	58.4
E	Rear Overhang	68.5	68.5	68.5	68.5	68.5
F	Load Height (Loaded)	25.9/26.2	25.9/26.2	26.2	26.0	26.0
G	Front Overhang	34.6	34.6	34.6	34.6	34.6
H	Wheelbase	138.0	158.0	176.0	158.0	176.0
I	Overall Length	241.1	261.1	261.1	261.1	261.1

J	Cab Height (Curb)	80.4/80.3	80.3/80.2	80.1	80.0	80.0
L	Front Track	69.4	69.4	69.4	69.4	69.4
M	Rear Track Dual — Rear	72.1/75.4	72.1/75.4	75.4	77.7	77.7

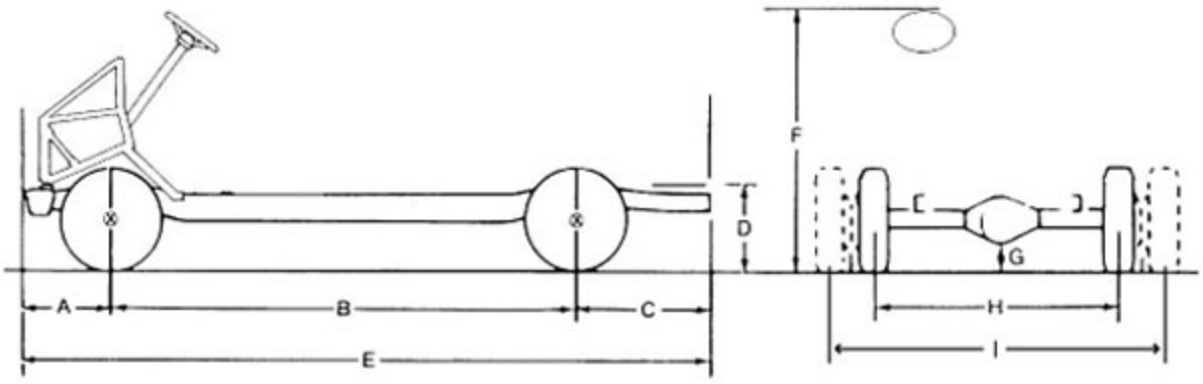
NOTE: Front jacking point — located under the front radius arm rearward of the sloped section (use flat space provided).

NOTE: Rear jacking point — located under rear axle between U-bolts.

Interior Dimensions — E-350/E-450 Cutaway

Series	E-350			E-450	
Model	Cutaway			Cutaway	
	SRW/DRW	SRW/DRW	DRW	DRW	DRW
Description					
Head Room (in.)	42.0	42.0	42.0	42.0	42.0
Max. Leg Room (in.)	42.1	42.1	42.1	42.1	42.1
Hip Room (in.)	65.6	65.6	65.6	65.6	65.6
Shoulder Room (in.)	68.1	68.1	68.1	68.1	68.1

Body Dimensions — E-350/E-450 Stripped Chassis



Model		Stripped Chassis		
Series		E-350	E-350/E-450	E-350/E-450
		DRW	DRW	DRW
Code	Description			
A	Frame to Front Axle	26.2	26.2	26.2
B	Wheelbase	138.0	158.0	176.0
C	Rear Overhang	68.5	68.5	50.5
D	Load Height (Loaded)	26.2	26.2/26.0	26.2/26.0

E	Overall Length	232.7	252.7	252.7
F	Height at Top of Steering Wheel (Loaded)	71.9	71.9/71.7	71.8/71.7
G	Rear Axle Clearance, Loaded	7.0	7.0	7.0
H	Front Track	69.4	69.4	69.4
I	Rear Track	75.4	75.4/77.7	75.4/77.7

NOTE: Front jacking point — located under the front radius arm rearward of the sloped section (use flat space provided).

NOTE: Rear jacking point — located under rear axle between U-bolts.

2024 E-Series > **Specs** > Dimensions/Weights/Capacities

GVWR/Payload/Spring & GAWR/Base Curb Weight

Model	WB (in.)	Engine/Trans.	Maximum GVWR (lbs.)	Maximum Payload[1] (lbs.)	Spring/GAWR[1] (lbs.)	Base Curb Weight (lbs.)

					Front Range Min.-Max.	Rear	Front	Rear	Total
E-350 Cutaway	138 SRW	7.3L PFI V8 Premium/6R140	10,050	5,100	4,200	6,084	2,958	1,992	4,950
	138 DRW	7.3L PFI V8 Premium/6R140	11,500	6,270	4,050-4,600	7,800	3,001	2,224	5,225
	158 SRW	7.3L PFI V8 Premium/6R140	10,050	5,030	4,200	6,084	3,039	1,973	5,012
E-350 Cutaway	158 DRW	7.3L PFI V8 Premium/6R140	11,500	6,210	4,200-4,600	7,800	3,082	2,205	5,287
		7.3L PFI V8 Premium/6R140	12,500	7,210	4,200-5,000	8,500	3,082	2,205	5,287
	176 DRW	7.3L PFI V8 Premium/6R140	12,500	7,200	4,200-5,000	8,500	3,148	2,149	5,297
E-350 Stripped Chassis	138 DRW	7.3L PFI V8 Premium/6R140	11,500	6,870	4,400-4,600	7,800	2,421	2,204	4,625
	158 DRW	7.3L PFI V8 Premium/6R140	12,500	7,820	4,600-5,000	8,500	2,480	2,198	4,678
	176 DRW	7.3L PFI V8 Premium/6R140	12,500	7,760	4,600-5,000	8,500	2,535	2,197	4,732
E-450 Cutaway	158 DRW	7.3L PFI V8 Premium/6R140	14,200	8,680	4,600	9,600	3,078	2,434	5,512
		7.3L PFI V8 Premium/6R140	14,500	8,980	5,000	9,600	3,078	2,434	5,512
	176 DRW	7.3L PFI V8 Premium/6R140	14,200	8,680	4,600	9,600	3,161	2,358	5,519
		7.3L PFI V8 Premium/6R140	14,500	8,980	5,000	9,600	3,161	2,358	5,519
E-450 Stripped Chassis	158 DRW	7.3L PFI V8 Premium/6R140	14,500	9,690	5,000	9,600	2,531	2,274	4,805
	176 DRW	7.3L PFI V8 Premium/6R140	14,500	9,640	5,000	9,600	2,566	2,292	4,858

(1) Gross Axle Weight Rating is determined by the rated capacity of the minimum component of the axle system (axle, wheels, tires) of a specific vehicle. Front and rear GAWRs will, in all cases, sum to a number equal to or greater than the GVWR for the particular vehicle. Maximum loaded vehicle (including passengers, equipment and payload) cannot exceed the GVWR or GAWR (front or rear).

Cutaway — Actual Regular Production Option Content Weight

Option Weight	(Front/Total) (lbs.)
REAR DIFFERENTIAL	
Limited-slip rear axle (E-350 SRW)	(0/7)
Limited-slip rear axle (E-350/E-450 DRW)	(0/4)
TIRES (add tire weight even if specified as standard equipment)	
LT225/75R16E (DRW)	(0/0)
LT245/75R16E (SRW)	(0/0)
TIRE EQUIPMENT	
Spare Tire (LT225/75R16E)	(-5/37)

Spare Tire (LT245/75R16E)	(-6/43)
Spare Wheel	(-5/35)
PACKAGES	
Auxiliary Heater Prep Package	(5/9)
Heater & A/C Prep Package	(18/21)
Heater & A/C Prep Package w/Rear Controls	(17/22)
Insulation Package	(1/1)
Power Windows/Locks Group	(9/13)
Seat Prep Package — Driver Only	(-27/-44)
Seat Prep Package — Driver and Passenger	(-57/-95)
Trailer Tow (Class I)	(1/2)
Upgraded Trailer Tow (Class I)	(1/2)
OPTIONS	
A/C – delete	(-51/-49)
Airbag, passenger cutoff switch	(1/1)
Airbag, passenger delete	(-9/-11)
Alternator, extra-heavy-duty	(3/3)
Backup alarm, electric (102 dBA)	Not available
Battery, heavy-duty/auxiliary	(29/67)
Bumper, chrome front	(5/4)
Captain's chairs, without trim	(-3/-5)
Carpeting — front	(5/8)
Console, engine cover delete	(-9/-11)
Cruise control	(2/2)
Daytime running lamps, non-configurable	Not available
Door delete, RH (138" WB)	(-58/-82)
Door delete, RH (158" WB)	(-61/-82)
Door delete, RH (176" WB)	(-63/-82)
Floor covering delete	(-6/-9)
Fuel tank, 40-gallon	(18/-107)
Fuel tank, 55-gallon	(-18/107)
Headlamps, halogen aerodynamic	(4/3)
Headliner delete	(-2/-4)
Heater, engine block	(1/1)
Jack, 2-ton mechanical (SRW)	(-1/6)
Jack, 4-ton hydraulic (DRW)	(-2/13)
License plate bracket, front	(1/1)
Mirror, exterior delete	(0/0)
Mirror, interior day/night	(1/1)
Mirrors, trailer tow — manual	(16/20)
Mirrors, trailer tow — power	(17/21)

Radio Prep Package with 2 speakers	Not available
Radio Prep Package with 4 speakers	Not available
Radio, delete	(-3/-4)
Rear View Camera Kit	(1/1)
Rear View Video Camera Kit	Not available
Remote Keyless Entry System	(1/1)
Running boards	(13/27)
Seat, power driver's	(6/10)
Seat delete, passenger	(-47/-77)
Spacers, alternate pattern frame (138" WB)	(-2/165)
Spacers, alternate pattern frame (158" WB)	(25/165)
Spacers, alternate pattern frame (176" WB)	(42/165)
Spacers, standard pattern frame, not included (138" WB)	(8/129)
Spacers, standard pattern frame, not included (158" WB)	(8/129)
Spacers, standard pattern frame, not included (176" WB)	(44/147)
Speakers, 4	(3/4)
Sun visor delete	(-1/-2)
Trailer brake controller	(2/2)
Upfitter switch pack	(2/2)
Wheels, 16" x 7" forged aluminum	(-26/-52)
Wheels, aluminum hubcaps	(2/4)
Wheels, sport wheel covers	(2/4)
Line A) Total Actual Option Content Weight: (Front/Total)	____/____

Stripped Chassis — Actual Regular Production Option Content Weight

Option Weight	(Front/Total) (lbs.)
REAR DIFFERENTIAL	
Limited-slip rear axle (E-350/E-450 DRW)	(0/4)
TIRE EQUIPMENT	
Spare tire (LT225/75R16E)	(-5/37)
Spare tire (LT245/75R16E)	(-6/43)
Spare wheel	(-5/35)
PACKAGES	
A/C Prep	(24/25)
OPTIONS	
Alternator, extra-heavy-duty	(3/3)
Daytime running lamps, non-configurable	(TBA/TBA)

Fuel tank, 40-gallon	(18/-107)
Fuel tank, 55-gallon	(18/-107)
Heater, engine block	(1/1)
Jack, 2-ton mechanical (SRW)	(-1/6)
Jack, 4-ton hydraulic (DRW)	(-2/13)
Upfitter switch pack	(2/2)
Wheels, sport wheel covers	(2/4)
Line A) Total Actual Option Content Weight: (Front/Total)	____/____

E-350 Cutaway Standard Equipment

REAR WHEELS		SRW	DRW	SRW	DRW	DRW
WHEELBASE (in.)		138	138	158	158	176
POWERTRAIN						
Engine	Application	Refer to order guide				
	Type	7.3L PFI V8 premium-rated				
Transmission	Type	6-speed TorqShift auto				
AXLES						
Front Axle	Type	Twin I-beam IFS				
	Capacity (Rating @ Ground)	5,000 lbs.				
Rear Axle	Type	Full-floating, Dana 10.5"				
	Capacity (Rating @ Ground)	7,800 lbs.	8,500 lbs.			
BRAKES						
Front Disc	Type	Dual-piston caliper (2.36" diameter piston)				
	Size (in.)	13.58 diameter rotor				
Rear Disc	Type	Dual-piston caliper (1.89" diameter piston)				
	Size (in.)	13.58 diameter rotor				
Power-Assist Unit	Type	Vacuum-boost (SRW)/Hydro-boost (DRW)				
	Boost Ratio	13.46"	7.5:1 (SRW), 6.76:1 (DRW)			
Anti-Lock System	Type	Dual diaphragm (SRW), Hydro-boost (DRW)				
Parking Brake	Rear brake drum-in-hat	Foot-operated, push to apply/pull release lever to disengage				
ELECTRICAL						
Alternator	Rating	210 amperes, 2,835 watts(1)				
Battery	Type	Maintenance-free				
	Rating	78-AH				
Kit		Modified vehicle wiring				

FUEL TANK	Capacity[2]	40-gallon aft-of-rear-axle		
JACK	Capacity	2.0-ton (SRW), 4.0-ton (DRW)		
STEERING	Type	Gear assembly power steering		
	Ratio	17.0:1		
SUSPENSION				
Frame	Type	Single-channel, 6 crossmembers, 36,000-psi steel (includes 2 lateral spacers, 4 longitudinal spacers and 12 body mounts with 138" and 158" WB. or, 4 lateral spacers, 2 longitudinal spacers and 12 body mounts with 176" WB.)		
	Section Modulus	5.73 cu. in.		
Springs, Front	Type	Coil, computer-selected		
	Rating @ Ground (min.)	3,199 lbs.	3,100 lbs.	3,100 lbs.
Springs, Rear	Type	Multi-leaf, single-stage		
	Rating @ Ground (min.)	7,310 lbs.	8,500 lbs.	
Shock Absorbers	Gas-type	35 mm		
Stabilizer Bar	Front/Rear—Diameter	Front — 25.4 mm (SRW)/23 mm (DRW); rear — 28.6 mm (DRW)		
TIRES	Type	Four, truck-type steel-belted radial, all-season (six with DRW)		
	Size	LT245/75R16E	LT225/75R16E	
WHEELS	Type & Size	Four, 8-hole disc, 16" x 7.0" K steel (six, 16" x 6.0" K with DRW)		

(1) Rated current (@ 6,000 rpm) per ISO 8854: 1988 (E) and SAE J56 JUN1999. Actual output is temperature- and application-dependent.

(2) Also includes 7.5-gallon plastic transit fuel tank (may be deleted), Auxiliary Fuel Port and Fuel System Conversion Kit.

E-350 Stripped Chassis Standard Equipment

REAR WHEELS		DRW	DRW	DRW	DRW	DRW
WHEELBASE (in.)		138	158	176	158	176
POWERTRAIN						
Engine	Application	Refer to order guide				
	Type	7.3L PFI V8 premium-rated				
Transmission	Type	6-speed TorqShift auto				
AXLES						
Front Axle	Type	Twin I-beam IFS				
	Capacity (Rating @ Ground)	5,000 lbs.				
Rear Axle	Type	Full-floating, Dana 10.5"				
	Capacity (Rating @ Ground)	6,340 lbs.	8,500 lbs.	7,800 lbs.		
BRAKES						
Front Disc	Type	Dual piston caliper (2.36" diameter piston)				
	Size (in.)	13.58 diameter rotor				

Rear Disc	Type	Dual piston caliper (1.89" diameter piston)			
	Size (in.)	13.58 diameter rotor			
Power-Assist Unit	Boost Ratio	Hydro-Boost 6.76:1 (DRW)			
	Effective Diameter	13.46"			
Anti-Lock System		4-wheel			
Parking Brake	Rear brake drum-in-hat	Foot-operated, push to apply/pull release lever to disengage			
ELECTRICAL					
Alternator	Rating	210 amperes, 2,835 watts(1)			
Battery	Type	Maintenance-free			
	Rating	78-AH			
Kit		Modified vehicle wiring			
FUEL TANK	Capacity	40-gallon aft-of-rear-axle			
STEERING	Type	Gear assembly power steering			
	Ratio	17.0:1			
SUSPENSION					
Frame	Type	Single-channel, 6 crossmembers, 36,000-psi steel			
	Section Modulus	5.73 cu. in.			
Springs, Front	Type	Coil, computer-selected			
	Rating @ Ground (min.)	3,100 lbs.	3,550 lbs.	3,800 lbs.	4,050 lbs.
Springs, Rear	Type	Multi-leaf, single-stage			
	Rating @ Ground (min.)	8,500 lbs. (DRW)			
Shock Absorbers	Gas-type	35 mm			
Stabilizer Bar	Front — Diameter	23 mm (DRW)			
	Rear — Diameter	28.6 mm (DRW)			
TIRES	Type	Truck-type steel-belted radial, all-season			
	Size	Six, LT225/75R16E(2)			
	Spare tire carrier	None			
WHEELS	Type & Size	Six, 8-hole disc, 16" x 6.0" K steel(2)			

(1) Rated current (@ 6,000 rpm) per ISO 8854: 1988 (E) and SAE J56 JUN1999. Actual output is temperature- and application-dependent.

(2) Spare tire and wheel are shipped temporarily mounted to the top of the frame.

2024 E-Series > Specs > Standard Equipment

E-450 Cutaway Standard Equipment

REAR WHEELS		DRW	DRW
WHEELBASE (in.)		158	176
POWERTRAIN			
Engine	Application	Refer to order guide	

	Type	7.3L PFI V8 premium-rated
Transmission	Type	6-speed TorqShift auto
AXLES		
Front Axle	Type	Twin I-beam IFS
	Capacity (Rating @ Ground)	4,600 lbs.
Rear Axle	Type	Full-floating, Dana 10.75" HD
	Capacity (Rating @ Ground)	9,600 lbs.
BRAKES		
Front Disc	Type	Dual piston caliper (2.36" diameter piston)
	Size (in.)	13.58 diameter rotor
Rear Disc	Type	Dual piston caliper (2.12" diameter piston)
	Size (in.)	13.58 diameter rotor
Power-Assist Unit	Boost Ratio	Hydro-Boost, 6.76:1
Anti-Lock System		4-wheel
Parking Brake	Rear brake drum-in-hat	Foot-operated, push to apply/pull release lever to disengage
ELECTRICAL		
Alternator	Rating	210 amperes, 2,835 watts(1)
Battery	Type	Maintenance-free
	Rating	78-AH
Kit		Modified vehicle wiring
FUEL TANK	Capacity(2)	55-gallon, aft-of-rear-axle
STEERING	Type	Gear assembly power steering
	Ratio	17.0:1
SUSPENSION		
Frame	Type	Single-channel, 6 crossmembers, 36,000-psi steel
	Section Modulus	6.40 cu. in.
Springs, Front	Type	Coil
	Rating @ Ground (min.)	4,600 lbs.
Springs, Rear	Type	Multi-leaf, single-stage
	Rating @ Ground (min.)	9,600 lbs.
Shock Absorbers	Gas-type	35 mm
Stabilizer Bar	Front — Diameter	23 mm
	Rear — Diameter (DRW only)	28.6 mm
TIRES	Type	Six truck-type steel-belted radial, all-season
	Size	LT225/75R16E
WHEELS	Type & Size	Six, 8-hole disc, 16" x 6.0" K steel

(1) Rated current (@ 6,000 rpm) per ISO 8854: 1988 (E) and SAE J56 JUN1999. Actual output is temperature- and application-dependent.

(2) Also includes 7.5-gallon plastic transit fuel tank (may be deleted), Auxiliary Fuel Port and Fuel System Conversion Kit.

E-450 Stripped Chassis Standard Equipment

REAR WHEELS		DRW	DRW
WHEELBASE (in.)		158	176
POWERTRAIN			
Engine	Application	Refer to order guide	
	Type	7.3L PFI V8 premium-rated	
Transmission	Type	6-speed TorqShift auto	
AXLES			
Front Axle	Type	Twin I-beam IFS	
	Capacity (Rating @ Ground)	5,000 lbs.	
Rear Axle	Type	Full-floating, Dana 10.75" HD	
	Capacity (Rating @ Ground)	9,600 lbs.	
BRAKES			
Front Disc	Type	Dual piston caliper (2.36" diameter piston)	
	Size (in.)	13.58 diameter rotor	
Rear Disc	Type	Dual piston caliper (2.12" diameter piston)	
	Size (in.)	13.58 diameter rotor	
Power-Assist Unit	Type	Hydro-Boost	
	Boost Ratio	6.76:1	
Anti-Lock System		4-wheel	
Parking Brake	Rear brake drum-in-hat	Foot-operated, push to apply/pull release lever to disengage	
ELECTRICAL			
Alternator	Rating	210 amperes, 2,835 watts[1]	
Battery	Type	Maintenance-free	
	Rating	78-AH	
Kit		Modified vehicle wiring	
FUEL TANK	Capacity	55-gallon	
STEERING	Type	Gear assembly power steering	
	Ratio	17.0:1	
SUSPENSION			
Frame	Type	Single-channel, 6 crossmembers, 36,000-psi steel	
	Section Modulus	5.730 cu. in.	
Springs, Front	Type	Coil, computer-selected	
	Rating @ Ground (min.)	5,000 lbs.	
Springs, Rear	Type	Multi-leaf, single-stage	
	Rating @ Ground (min.)	9,600 lbs.	
Shock Absorbers	Gas-type	35 mm	
Stabilizer Bar	Front — Diameter	Front — 23 mm	Rear — 28.6 mm
TIRES	Type	Truck-type steel-belted radial, all-season	

	Size	Six, LT225/75R16E
	Spare tire carrier	None
WHEELS	Type & Size	Six, 8-hole disc, 16" x 6.0" K steel(2)

(1) Rated current (@ 6,000 rpm) per ISO 8854: 1988 (E) and SAE J56 JUN1999. Actual output is temperature- and application- dependent.

(2) Spare tire and wheel are shipped temporarily mounted to the top of the frame.

2024 E-Series > Specs > Powertrain

Auxiliary Automatic Transmission Oil Cooler Applications

Model/Series	Engine	Transmission	Standard No. of Plates	Air Conditioning No. of Plates	Trailer Towing No. of Plates
E-350/E-450	7.3L PFI V8 Premium-rated	TorqShift	20 — 1/2" Ports	20 — 1/2" Ports	24 — 1/2" Ports

2024 E-Series > Specs > Powertrain

Cooling System Specifications

Engine	Cooling	Trans. Usage	Frontal Area (sq. in.)	Core Size (in.)			Rows of Tubes	Fins per Inch	Cooling System Capacity (approx. quarts)	Fan Specifications		
				Height	Width	Thick.				Type	No. of Blades	Blade Dia. (in.)
7.3L PFI V8 Premium-rated	All	Auto	708	23.6	30.0	1.4	1	16.5	30.4	Plastic	8	20.0

2024 E-Series > Specs > Powertrain

Engine

Driveline Layout	Front Engine, Rear Wheel (RWD)
Engine Type	**7.3L PFI V8 Premium-Rated**
Displacement (liters/cu. in.)	7.3/445
Horsepower @ rpm	325 @ 3,750
Torque (lb.-ft.) @ rpm	450 @ 3,750
Compression Ratio	10.5:1
Valvetrain	SOHC
Valve Operation	Push rod
Bore & Stroke (in.)	4.21 x 3.98
Main Bearings	5
Induction	Naturally aspirated
Fuel System	Sequential Multiport

Fuel Requirement (octane)	87 (min.)

PERFORMANCE NOTE: Horsepower and torque are independent attributes and may not be achieved simultaneously.

2024 E-Series > Specs > Powertrain

Fuel System Data

Electronic Fuel Injection	7.3L PFI V8 Premium-rated	Sequential Multiport Fuel Injection
Fuel Pump	7.3L PFI V8 Premium-rated	Electric-in-Tank High Pressure
Fuel Filter	7.3L PFI V8 Premium-rated	In-line Large Capacity (One)
Air Cleaner	7.3L PFI V8 Premium-rated	Dry Element, Replaceable

2024 E-Series > Specs > Powertrain

Transmission Specifications

Make/Type	**Ford 6-Speed TorqShift Automatic**
Engine	7.3L PFI V8
Ratios (to 1)	
1st	3.97
2nd	2.31
3rd	1.51
4th	1.14
5th — OD	0.85
6th — OD	0.67
Reverse	3.12
Converter Size & Type	305 mm, 3 Plate, 2 Stage
Converter Torque Ratio @ WOT Stall	1.9
Lubricant Capacity (pt.)	17.4
Gearset	Double Ravigneaux
Oil Cooler	Oil to Air and In-Tank

2024 E-Series > Specs > Chassis

Front Axle Specifications

Model/Series	**E-350/E-450**
Max. Rating @ Ground (lbs.)	5,000
Type	Twin-I-beam spindle with ball joints

Axle	Material	Nodular cast iron
	Spring Centers (in.)	47.0
Radius Arms	No.	2
	Material	High-strength low-alloy steel
Ball Joint		Lubed-for-life ball joints
Spindle	Material	Nodular cast iron body with forged steel stem
Wheel Bearings	Type	Tapered roller

2024 E-Series > **Specs** > Chassis

Rear Axle Specifications

Model/Series		E-350	E-450
Make		Dana 10.5"	Dana 10.75" HD
Rating @ Ground (lbs.)		7,800/8,500	9,600
Type		Full-floating	Full-floating
Driveline Attachment, Circular Flange		4.25"	4.75"
Housing	Type	Cast center	Cast center
	Cover Attachment	Bolted	Bolted
Section	Tube Diameter (in.)	3.50	4.00
	Thickness (in.)	0.39/0.56	0.625
Lubricant Capacity (pt.)		6.6	9.6
Spring Centers (in.)		48.92	48.92
Wheel Bearings	Type	Tapered roller, 2 opposed	
Gears	Type	Hypoid	Hypoid
	Material	Alloy steel	Alloy steel
Ring Gear	Pitch Diameter (in.)	10.50	10.75
	Mounting	Overhung	Overhung
Differential	Type	2-pinion(1)	2-pinion(1)
	L/S Type	Traction-Lok	Traction-Lok
Axle Shaft	Spline — Minor Dia. (in.)	1.268	1.268
	Spline — Major Dia. (in.)	1.375	1.375
	Number of Splines	32	35

(1) 4-pinion for limited-slip.

2024 E-Series > **Specs** > Chassis

Brake Equipment Specifications — Front/Rear

Type	Model/Series	Rotor Dia. (in.)		Brake Lining Segment	Area (sq. in.)/ Width (in.)/ Thickness (in.)	Caliper Piston Dia. (in.)	Gross Lining Area Per Axle (sq. in.)	Total Swept Area Per Axle (sq. in.)
		OD	ID					
Disc	All (Front)	13.58	8.70	Outboard	7.16/2.34/0.489	2.36	47.8	341.6
				Inboard	—			
	E-450 (Rear)	13.58	9.88	Outboard	5.96/1.74/0.51	2.12	43.65	272.70
				Inboard	—			
	E-350 (Rear)	13.58	9.88	Outboard	6.65/2.33/0.346	1.89	39.50	272.70
				Inboard	5.31/2.03/0.413			

2024 E-Series > **Specs** > Chassis

Brake Master Cylinder Specifications

Type	Model/Series	Bore Diameter (in.)
Dual System, Dash-mounted	E-350 SRW	1.31
	E-350/E-450 DRW	1.38

2024 E-Series > **Specs** > Chassis

Power Brakes Hydraulic Booster Specifications

Type	Model/Series	Ratio
Hydro-Boost	E-350 (DRW)/E-450	6.76:1

2024 E-Series > **Specs** > Chassis

Power Brakes Vacuum Booster Specifications

Type	Model/Series	Ratio	Diaphragm Type
Bendix,® Dash-mounted	E-350 (SRW)	7.5:1	Dual

2024 E-Series > **Specs** > Chassis

Frame Specifications

Model/Series	Wheelbase (in.)	Maximum Side Rail Section (in.)	Section Modulus (cu. in.)	Yield Strength (psi)
E-350/E-450 Cutaway/Stripped Chassis	138, 158, 176	7.69 x 3.18 x 0.228	5.73	36,000
E-450 Cutaway	158, 176	7.69 x 3.18 x 0.248	6.40	36,000

2024 E-Series > **Specs** > Chassis

Shock Absorber Specifications

		Front & Rear		
Model/Series	Usage	Number	Piston Diameter (mm)	Type
E-350/E-450	Standard	4	35 mm	Gas-pressurized

2024 E-Series > **Specs** > Chassis

Spring Specifications — Front Coil

Model/Series	GVWR (lbs.)	Combined Rating @ Ground (lbs.)	Normal Working Height of Spring (in.)	Wire Diameter (in.)	Deflection Rate @ Ground (lbs. per in. each)	Inside Diameter (in.)	Rating Each @ Pad (lbs. per spring)
E-350 Cutaway	10,050 (SRW), 11,500, 12,500	3,800	12.0	0.72	328	4.0	2,165
		3,900	12.0	0.73	341	4.0	2,224
		4,050	12.0	0.74	354	4.0	2,318
		4,200	12.0	0.74	354	4.0	2,414
		4,400	12.0	0.76	366	4.0	2,542
		4,600	12.0	0.78	366	4.0	2,670
		5,000	12.0	0.79	418	4.0	2,900
E-350 Stripped Chassis	11,500, 12,500	3,800	12.0	0.72	328	4.0	2,165
		3,900	12.0	0.73	341	4.0	2,229
		4,050	12.0	0.74	354	4.0	2,318
		4,200	12.0	0.74	354	4.0	2,414
		4,400	12.0	0.76	366	4.0	2,542
		4,600	12.0	0.78	366	4.0	2,670
		5,000	12.0	0.79	418	4.0	2,900
E-450 Cutaway/ Stripped Chassis	14,200	4,600	12.0	0.78	366	4.0	2,670
	14,500	5,000	12.0	0.79	418	4.0	2,900

2024 E-Series > **Specs** > Chassis

Spring Specifications — Rear Main Leaf

Model/Series	Combined Rating @ Ground (lbs.)	Number of Leaves	Total Thickness @ Pad (in.)	Length (in.)	Width (in.)	Deflection Rear (lbs. per in. per spring)(1)	Rating Each @ Pad (lbs. per spring)

E-350 Extended Cutaway	6,195	4	1.99	55.0	3.00	373.0/699.0	2,772
E-350 Cutaway/ Stripped Chassis SRW	7,310	9	3.59	55.0	3.00	924.7	3,296
E-350 Cutaway/ Stripped Chassis DRW	8,500	9	3.79	58.5	3.00	1,087	3,790
E-450 Cutaway/ Stripped Chassis	9,600	11	4.66	58.5	3.00	1,138	4,288

(1) Dual numbers indicate two-stage spring.

2024 E-Series > Specs > Chassis

Steering Specifications

Model/Series	Wheelbase (in.)	Power Steering(1)		Turning Diameter (ft.)(2)	
		Gear Ratio	Overall Ratio	Curb-to-Curb	Wall-to-Wall
E-350 SRW	138	17:1	21.2:1	48.6	50.0/50.0(3)
E-350 DRW	138	17:1	21.2:1	48.6	50.0/50.1(3)
E-350 SRW	158	17:1	21.2:1	54.9	56.2(3)
E-350 DRW/ E-450	158	17:1	21.2:1	54.8	56.2(3)
	176	17:1	21.2:1	60.3	61.8(3)

(1) 15 1/2" diameter steering wheel. Cutaway and Stripped Chassis models include HD steering gear.

(2) Average of left and right turns with standard tires.

(3) Cutaway only.

2024 E-Series > Specs > Chassis

Tire Specifications

Type/Size	SRW/ DRW	Rim Width (in.)	Section Width (in.)	Ply Rating	Load Rating	Maximum Inflation Pressure (psi)	Load Limits @ Maximum Inflation Pressure (lbs.)	Static Loaded Radius (in.)	Revolutions Per Mile @ 45 mph
LT225/75Rx16	DRW	6.0	9.60	10	E	80	2,680/2,470(1)	14.60	709
LT245/75Rx16	SRW	7.0	10.20	10	E	80	3,042	14.10	677

(1) Tire rating when in the front single position/rating when in the dual position.

2024 E-Series > Specs > Chassis

Wheel Specifications

Wheel Type	Wheel Size	Nominal Offset (mm)	No. of Studs	Bolt Circle (in.)	Max. Wheel Capacity Load (lbs. @ ground)

Steel	16" x 7.0" K	0.25	8	6.5	2,300 Front 3,045 Rear
	16" x 6.0" K (Dual)	5.15	8	6.5	2,500 Front 2,500 Rear
Aluminum	16" x 7.0" J	0.25	8	6.5	3,045

2024 E-Series > Specs > Special Applications

Trailer Towing Information

For additional towing information, refer to the RV & Trailer Towing Guide, available as a printable PDF on **eSourceBook**, or the vehicle Owner's Manual.

2024 E-Series > Specs > Special Applications

Snow Plow Applications

Not recommended for Snow Plow Applications.

2024 E-Series > Specs > Electrical

Alternator Specifications

Output[1] (amperes)	210	240	240/157
Output (watts)	2,835	3,240	5,360

(1) Actual output is temperature- and application-dependent.

2024 E-Series > Specs > Electrical > Alternator Performance Curves

210-Ampere Alternator

Engine	Pulley Ratio	Model Application
7.3L PFI V8	3.03:1	E-Series Cutaway and Stripped Chassis

2024 E-Series > Specs > Electrical > Alternator Performance Curves

240-Ampere Alternator

Engine	Pulley Ratio	Model Application
7.3L PFI V8	3.03:1	E-Series Cutaway and Stripped Chassis (optional)

2024 E-Series > Specs > Electrical > Alternator Performance Curves

240-/157-Ampere Alternator

Engine	Pulley Ratio	Model Application
7.3L PFI V8 (Premium-rated)	3.03:1/2.80:1	E-Series Cutaway and Stripped Chassis (optional)

2024 E-Series > Specs > Electrical

Battery Applications

Ampere-Hour Rating	78	Dual 78
Cold-Cranking Amps at 0°F	750	1,500
E-Series		
7.3L PFI V8 Premium-rated	Std.	Opt.

2024 E-Series > Specs > Electrical

Cold Weather Recommendations

Minimum Temperature	Equipment	
	Dual 78 Amp-Hr Batteries (opt.)	Engine Block Heater

0° F	Suggested	Not Needed
-10° F	Recommended	Suggested
-20° F	Recommended	Recommended
Below -20° F	Strongly Recommended	Strongly Recommended

DEFINITIONS

Suggested: Helpful, but not needed.

Recommended: Could improve reliability in less-than-ideal conditions.

Strongly Recommended: Will give definite improvement over the standard components.

Dual Batteries: Higher-capacity batteries available. (Usage varies by model.)

Engine Block Heater: Available equipment for all engines. (Usage and heater capacity vary with engine requirements.)

Standard Lighting/Reflector Equipment

Light Reflector	Application
Headlamps (Halogen)	All Series — Two replaceable bulbs with all models
Parking Lamps	All Series — Integral with turn signals
Front/Rear Turn Signals	All Series
Front Side Marker Lamps	All Series
Front Side Reflectors	All Series
Rear Side Reflectors	All Series
Rear Side Marker Lamps	All Series — Integral with taillamps
License Plate Lamps	All Series
Two Combination Taillamps with Integral Stop, Turn Signal and Backup Lamps and Reflective Surface	All Series
Rear Reflectors	All Series
Front Daytime Running Lamps	All Vehicles Registered in Canada

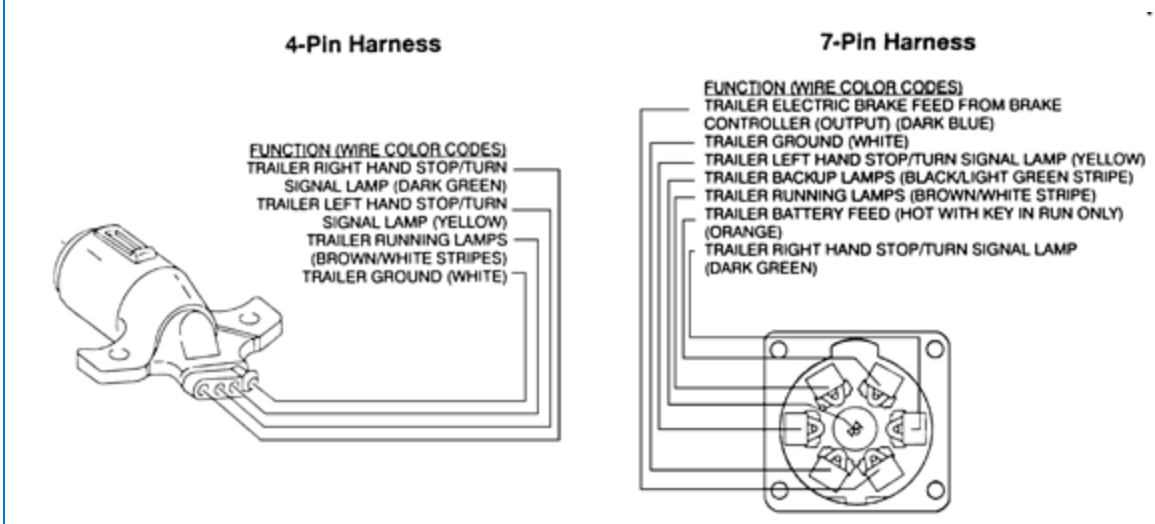
Light Specifications and Usage

Lamp	Code	Description	Usage
Daytime Running Lamps — Configurable	STD	(2) Replaceable Bulbs, Halogen	All Vehicles Registered in Canada
Headlamps	STD	(2) Replaceable Bulbs, Halogen	All Vehicles Registered in U.S. and Canada

2024 E-Series > **Specs** > Electrical

Trailer Towing Wiring Harness

Circuit Number	Circuit Description	Color Code
RAT08	Ground	White
CAT17	Parking Lamps	Brown
CAT14	Trailer Battery Feed	Orange
CAT19	To Electric Brakes	Dark Blue
CAT09	RH Turn Signal and Stop Lamps	Dark Green
CAT06	LH Turn Signal and Stop Lamps	Yellow
CAT03/CAT16	Trailer Backup Lamps	Gray with Brown Stripe
CBP30	Front Brake Controller Running Lamp Feed/Park Lamp Feed	Yellow with Blue Stripe
CBP40	Rear Brake Controller Running Lamp Feed/Park Lamp Feed	Yellow with Green Stripe
CLS30	Brake Controller Running Lamp Feed/Park Lamp Feed	Violet with White Stripe
CCB08	Vehicle Stop Lamps	Violet with White Stripe
SBB18/SBB17	B+ to Electric Brake Controller	Yellow with Red Stripe


4-Pin Harness
FUNCTION (WIRE COLOR CODES)
TRAILER RIGHT HAND STOP/TURN SIGNAL LAMP (DARK GREEN)
TRAILER LEFT HAND STOP/TURN SIGNAL LAMP (YELLOW)
TRAILER RUNNING LAMPS (BROWN/WHITE STRIPES)
TRAILER GROUND (WHITE)
7-Pin Harness
FUNCTION (WIRE COLOR CODES)
TRAILER ELECTRIC BRAKE FEED FROM BRAKE CONTROLLER (OUTPUT) (DARK BLUE)
TRAILER GROUND (WHITE)
TRAILER LEFT HAND STOP/TURN SIGNAL LAMP (YELLOW)
TRAILER BACKUP LAMPS (BLACK/LIGHT GREEN STRIPE)
TRAILER RUNNING LAMPS (BROWN/WHITE STRIPE)
TRAILER BATTERY FEED (HOT WITH KEY IN RUN ONLY) (ORANGE)
TRAILER RIGHT HAND STOP/TURN SIGNAL LAMP (DARK GREEN)